

DEC 13 1963

SN-212

Mr. D. J. Long, Chief Engineer
 Rockwell Standard Corporation
 Aero Commander Division
 P. O. Box 398
 Norman, Oklahoma

Dear Mr. Long:

Application for Type Certification for the Aero Commander Model 1121 Jet Commander was made on August 11, 1961. Since then a Preliminary Type Certification Board Meeting (April 17, 18, and 19, 1962) and Interim Type Certification Board Meeting (October 15 and 16, 1963) have been held. On the basis of these meetings and data presented and discussed to date, the FAA has determined the Certification Basis for the Model 1121 as follows:

1. CAR 4b, effective December 31, 1953.
2. Amendments through 4b-11 effective October 1, 1959.

~~Amendment 3~~ The following portions of Amendment 4b-12, effective May 3, 1962.

- a. All items covering powerplant fire protection.
- b. Item 4b.132
- c. Item 4b.151
- d. Item 4b.155.c
- e. Item 4b.156
- f. Item 4b.157
- g. Item 4b.153
- h. Item 4b.160
- i. Item 4b.162

DEFINING	REG. NO.	DET.	ENTIRE	NO.
A	1121	1121	1121	1
C	1121	1121	1121	2
T	1121	1121	1121	3

- j. Item 4b.191
- k. Item 4b.210(b)(5)
- l. Item 4b.603(k)
- m. Item 4b.711

4. Special Regulation SR-422B, effective July 9, 1959.

5. Special Regulation SR-450A, effective August 31, 1962.
This Special Regulation is retroactive.

6. The following requirements in accordance with FAR 4b.10. These items are listed and discussed in the minutes of the Preliminary Type Certification Board Meeting held on April 17, 18, and 19, 1962.

a. 4b.150 and 4b.711 Operational V-H Envelope. The demonstration of an operational V-H diagram that would permit the aircraft to be maneuvered in normal operation without encountering objectionable buffet, longitudinal pitching, or excessive loads, shall be required. This program will be established by the applicant and be evaluated during the FAM flight test program.

b. 4b.334 - Wheel Wells in the Fuel Tank Area. The fuel tank lines and other equipment essential to the safe operation of the airplane, which are located in or adjacent to the wheel well, shall be protected against the damaging effects of loose tire treads, overinflated wheels, or a bursting tire.

c. 4b.401 - Generator and Alternator Mechanical Failure Indication. A light or other suitable cockpit indicator shall be installed to advise the crew in the event of impending mechanical failure of either the generator or alternator.

d. 4b.427 and 4b.435 - Fuel System Filters and Screens. Means shall be provided to preclude restriction of fuel flow due to icing of the fuel tank outlet screens, boost pump screens, or other possible sources of fuel flow restriction due to ice accumulation.

a. 4b.460 and 4b.461-3 - Engine Component Vibrations. For turbine engines it shall be determined that the main vibration limits as established during type certification for rotating components, such as compressor blades, their attachments, etc., will not be adversely affected by variations in the air or gas flows through the engine under all normal operating conditions.

b. 4b.462 - Exhaust System. Drainage provisions shall be incorporated in the exhaust system to prevent the accumulation or reingestion of flammable fluids. Drainage shall clear the aircraft in ground and flight attitudes.

c. 4b.604 - Fuel Filter and Temperature Gauge. A fuel temperature gage shall be provided to indicate that fuel being supplied to the engine is within the approved fuel temperature limits and that fuel passing through the filter is above the temperature conducive to icing.

d. 4b.620 - Lightning Strike Protection. The fuel system shall be designed to provide protection against the ignition of flammable vapors occurring in the fuel tanks or the vent systems from lightning strikes or other sources.

e. 4b.631 - Oxygen System. Flight above 20,000 feet without oxygen would constitute a hazard in the event of pressurization loss. An oxygen system shall be provided with demand equipment for each crew member and each passenger.

Sincerely yours,

H. H. Slaughter
Chief, Engineering and
Manufacturing Branch
Flight Standards Division

cc:
SW-212
SW-214
SW-216
SW-218 (2)

JLPetras:ns:SW-212:x518:12/13/63
Project #CTS10-2D